

# AT815b LINE + GRADIENT CONDENSER MICROPHONE



- Designed for video production and broadcast (ENG/EFP) audio acquisition
- Provides the narrow acceptance angle desirable for long-distance sound pickup
- Excellent sound rejection from the sides and rear of mic
- Switchable low-frequency roll-off
- Operates on battery or phantom power

The AT815b requires 9V to 52V DC phantom power *or* a 1.5V AA battery for operation. A battery need not be in place for phantom power operation.

**Battery installation:** Unscrew the lower section of the microphone body, just below the nameplate. Insert a fresh 1.5V AA battery in the handle compartment ("+" end up), then reassemble the microphone. Alkaline batteries are recommended for longest life. Remove the battery during long-term storage.

Output from the microphone's XLRM-type connector is low impedance (Lo-Z) balanced. The signal appears across Pins 2 and 3; Pin 1 is ground (shield). Output phase is "Pin 2 hot" – positive acoustic pressure produces positive voltage at Pin 2.

An integral 180 Hz high-pass filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 110° F (43° C) for extended periods. Extremely high humidity should also be avoided.

## AT815b SPECIFICATIONS†

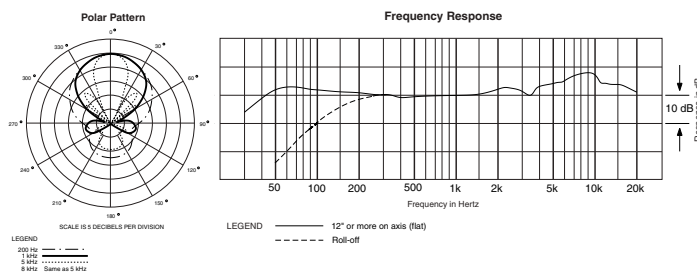
<b>ELEMENT</b>	Fixed-charge back plate permanently polarized condenser
<b>POLAR PATTERN</b>	Line + gradient
<b>FREQUENCY RESPONSE</b>	30-20,000 Hz
<b>LOW-FREQUENCY ROLL-OFF</b>	180 Hz, 12 dB/octave
<b>OPEN CIRCUIT SENSITIVITY</b> (Phantom / Battery)	-38 dB (12.5 mV) / -39 dB (11.2 mV) re 1V at 1 Pa*
<b>IMPEDANCE</b> (Phantom / Battery)	500 ohms / 600 ohms
<b>MAXIMUM INPUT SOUND LEVEL</b> (Phantom / Battery)	130 dB / 115 dB SPL, 1 kHz at 1% T.H.D.
<b>SIGNAL-TO-NOISE RATIO</b> <sup>1</sup>	70 dB, 1 kHz at 1 Pa*
<b>DYNAMIC RANGE</b> (typical) (Phantom / Battery)	106 dB / 91 dB, 1 kHz at Max SPL
<b>PHANTOM POWER REQUIREMENTS</b>	9-52V DC, 2 mA typical
<b>BATTERY TYPE</b>	1.5V AA/UM3
<b>BATTERY CURRENT / LIFE</b>	0.4 mA / 1200 hours typical
<b>SWITCH</b>	Flat, roll-off (recessed)
<b>WEIGHT</b> (less accessories)	7.1 oz (200 g)
<b>DIMENSIONS</b>	18.11" (460.0 mm) long, 0.83" (21.0 mm) diameter
<b>OUTPUT CONNECTOR</b>	Integral 3-pin XLRM-type
<b>ACCESSORIES FURNISHED</b>	AT8405a stand clamp for 5/8"-27 threaded stands; windscreen; battery; protective carrying case

†In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

\*1 Pascal = 10 dynes/cm<sup>2</sup> = 10 microbars = 94 dB SPL

<sup>1</sup> Typical, A-weighted, using Audio Precision System One.

Specifications are subject to change without notice.



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